[illegible] D2[illegible] 1937

X-Ref

Electricity
Battery Cases

D13-24

PRODUCTS

CONDUIT FITTINGS
SOLDERLESS CONNECTORS

●

O.Z. CABLE SUPPORT CO., Inc.
BROOKLYN, N.Y.

MAIL DIVISION
NOV - 1 32
U.S. PATENT OFFICE

OZ PRODUCTS

PATENT OFFICE
NOV 1 - 1932
DIV. 55

Div. 55

CABLE SUPPORTS

INSULATED BUSHINGS
END FITTINGS
SOLDERLESS TAPS
SOLDERLESS LUGS
TWO-WAY CONNECTORS
INDOOR POTHEADS
BAKELITE PRODUCTS
BAKELITE MOULDS

ELECTRICAL SPECIALTIES

O. Z. CABLE SUPPORT CO. INC.

45 BERGEN STREET
BROOKLYN, N. Y.

CATALOGUE NO. 3

This Catalogue supersedes and abrogates all former catalogues, lists, and discounts. We reserve the right to change both data and prices without notice.

ALL FITTINGS SHOWN IN THIS CATALOGUE ARE LISTED WITH THE UNDERWRITERS LABORATORIES. THE MAJORITY OF OUR PRODUCTS ARE PATENTED AND A NUMBER OF THEM HAVE PATENTS PENDING.

REPRESENTATIVES

FRED L. KAHN
3450 REISTERSTOWN RD.
BALTIMORE, MD.

DALE W. SCARBOROUGH
1326–1328 CHESTNUT ST.
PHILADELPHIA, PA.

H. C. MORAN
1724 GRANT BUILDING
PITTSBURGH, PA.

THE SCOTT-JAQUA CO. INC.
INDIANA TERMINAL WAREHOUSE
INDIANAPOLIS, IND.

J. G. POMEROY CO.
355 NINTH ST.
SAN FRANCISCO, CAL.

E. E. VAN CLEEF
53 WEST JACKSON BLVD.
CHICAGO, ILL.

MONCRIEFF H. SMITH & CO.
ST. LOUIS MART.
12TH & SPRUCE STREETS
ST. LOUIS, MO.

O. Z. PRODUCTS
USED

CABLE SUPPORTS

HIGH TENSION CLAMPS

INSULATED BUSHINGS

SOLDERLESS CABLE TAPS

SHREVE, LAMB & HARMON
Architects

◇

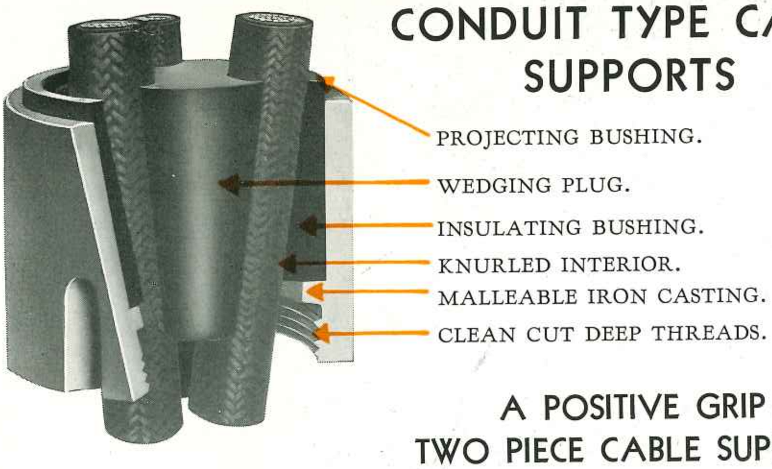
MEYER, STRONG, JONES INC.
Electrical Engineers

◇

L. K. COMSTOCK CO. INC.
Electrical Contractors

EMPIRE STATE BUILDING
NEW YORK

CONDUIT TYPE CABLE SUPPORTS



A POSITIVE GRIP TWO PIECE CABLE SUPPORT

A TYPICAL INSTALLATION

One of the features of the O. Z. Cable Support is that it requires only the standard knock-out spacing, used by all metal box manufacturers.

The conduit type Cable Support bushing should be installed in place of the iron bushing before the wires are dropped.

Orders can be placed for the supports complete or for bushings and plugs separately. The latter method is often of advantage to the contractor as it eliminates storing the plugs on the job awaiting the pulling of cable and also permits changes in plug sizes to accommodate change in wire sizes if any. When ordering plugs specify the amount and size of wires in the conduit; the manufacturer's name; and if possible, the outside diameter.

NOTE. One wire type Cable Supports differ from those of two or more conductors. When ordering Support Bushings only we must have this information.

We also make split type supports, which may be installed after the wires are in the conduit.

ONE WIRE TYPE CABLE SUPPORTS

Catalog Number	Size Conduit	Outside Diameter	Height Over All	Approximate Weight per C.	List Price Bushing Only	List Price Complete
50	½	1¼	1⅝	25	1.20	1.50
75	¾	1½	1⅝	30	1.20	1.50
100	1	1¾	1¾	60	1.35	1.75
125	1¼	2⅛	1¾	70	1.40	1.80
150	1½	2⅜	2⅛	90	1.70	2.20
200	2	3	2⅜	140	2.70	3.25
250	2½	3⅝	2¾	260	3.05	3.65

TWO OR MORE WIRE CABLE SUPPORTS

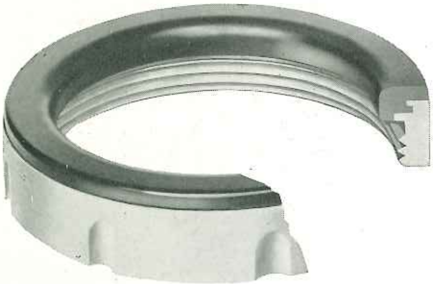
Catalog Number	Size Conduit	Outside Diameter	Height Over All	Approximate Weight per C.	List Price Bushing Only	List Price Complete
500	½	1¼	1⅝	25	1.20	1.50
750	¾	1½	1⅝	30	1.20	1.50
1000	1	1¾	1¾	60	1.35	1.75
1250	1¼	2⅛	1¾	70	1.40	1.80
1500	1½	2⅜	2⅛	90	1.70	2.20
2000	2	3	2⅜	140	2.70	3.25
2500	2½	3⅝	2¾	260	3.05	3.65
3000	3	4⅜	2⅞	365	4.00	4.80
3500	3½	5	3¼	520	5.50	6.50
4000	4	5½	3⅝	650	6.60	8.10
4500	4½	6¼	3¾	800	9.75	12.00
5000	5	6⅞	4⅛	900	12.00	15.00

PLUGS FOR ABOVE SUPPORTS

Size Conduit	No. of Wires	List Price	Size Conduit	No. of Wires	List Price	Size Conduit	No. of Wires	List Price
½	1 to 4	.30	1½	1 to 9	.50	3½	1 to 9	1.00
¾	1 to 6	.30	2	1 to 9	.55	4	1 to 9	1.50
1	1 to 9	.40	2½	1 to 9	.60	4½	1 to 9	2.25
1¼	1 to 9	.40	3	1 to 9	.80	5	1 to 9	3.00

INSULATED BUSHINGS

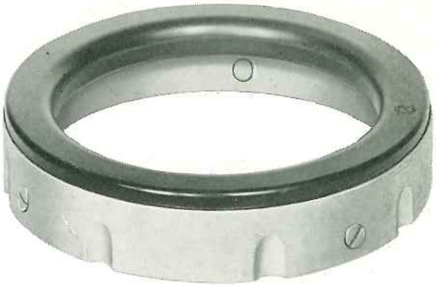
CONDUIT TYPE



A bushing designed to prevent disastrous grounds using Bakelite as an insulator. The above cut illustrates how insulating material is molded and locked into the casting. Castings are made of the highest grade Malleable Iron and are cadmium plated.

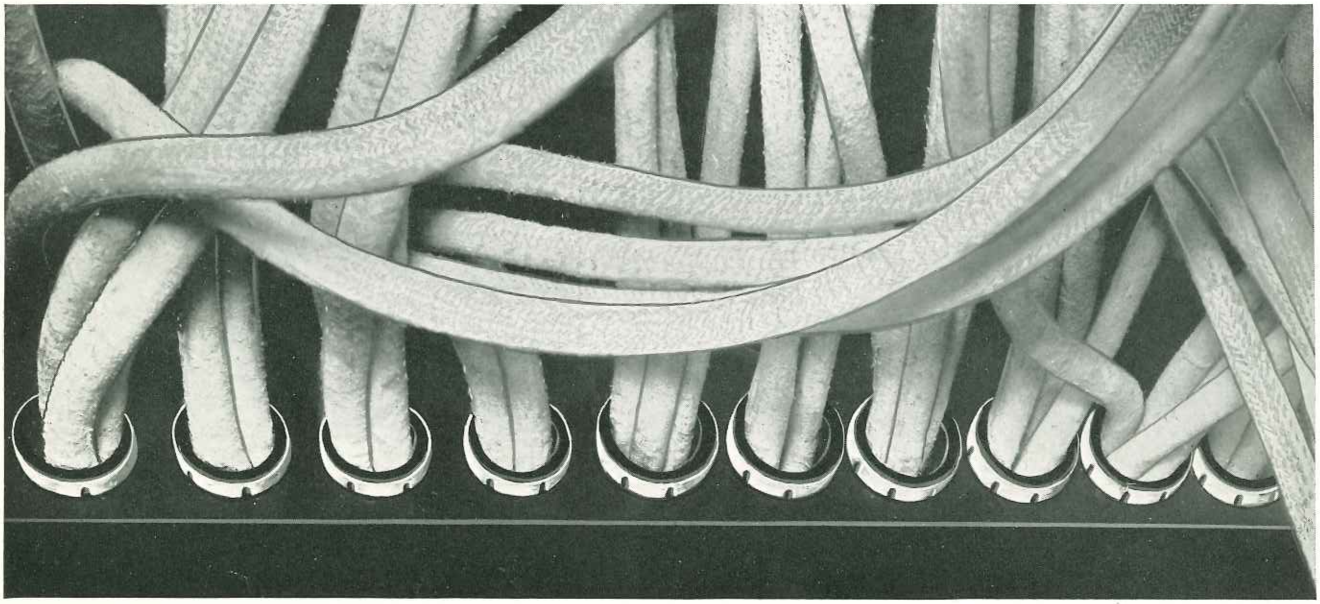
Catalog Number	Size	Diameter	Height	Standard Package	List Price
B 50	½	1	15/32	100	.10
B 75	¾	1¼	19/32	50	.20
B 100	1	1 17/32	11/16	30	.50
B 125	1¼	1⅞	¾	20	.60
B 150	1½	2⅛	¾	15	.75
B 200	2	2 23/32	¾	10	.90
B 250	2½	3¼	⅞	10	1.25
B 300	3	3 13/16	15/16	5	1.50
B 350	3½	4½	1 1/32	5	2.00
B 400	4	5⅛	1⅛	1	2.75
B 450	4½	5½	1⅛	1	3.50
B 500	5	6¼	1 3/16	1	5.00
B 600	6	7¼	1½	1	7.50

SET SCREW TYPE



An insulated bushing designed for use on conduits having no threads. It is constructed the same as the conduit type with the exception that case hardened cup point set screws are used as a means of fastening. These screws bite into the conduit and prevent loosening of the bushing.

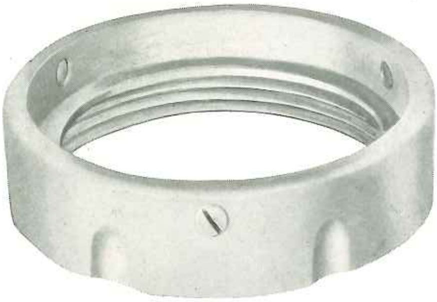
Catalog Number	Size	Diameter	Height	Standard Package	List Price
SB 50	½	1	15/32	100	.10
SB 75	¾	1¼	19/32	50	.20
SB 100	1	1 17/32	11/16	30	.50
SB 125	1¼	1⅞	¾	20	.60
SB 150	1½	2⅛	¾	15	.75
SB 200	2	2 23/32	¾	10	.90
SB 250	2½	3¼	⅞	10	1.25
SB 300	3	3 13/16	15/16	5	1.50
SB 350	3½	4½	1 1/32	5	2.00
SB 400	4	5⅛	1⅛	1	2.75
SB 450	4½	5½	1⅛	1	3.50
SB 500	5	6¼	1 3/16	1	5.00
SB 600	6	7¼	1½	1	7.50



THE ABOVE INSTALLATION SHOWS THE ADVANTAGES OF USING INSULATED BUSHINGS

END FITTINGS

CONDUIT TYPE

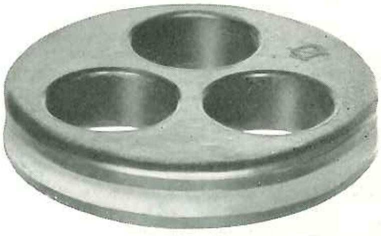


A compact fitting designed for use where space is limited and a neat appearance plus strength is required. These fittings are made of the highest grade Malleable Iron and are cadmium plated.

NOTE. Set screw type End Fittings can be had from stock, prices same as conduit type.

Catalog Number	Size	Diameter	Height	List Price
E 50	½	1¼	⅞	.25
E 75	¾	1½	⅞	.30
E 100	1	1 11/16	15/16	.40
E 125	1¼	2	15/16	.50
E 150	1½	2¼	15/16	.75
E 200	2	2 15/16	1⅛	1.25
E 250	2½	3 7/16	1¼	2.25
E 300	3	4	1¼	3.00
E 350	3½	4¾	1 15/32	4.00
E 400	4	5⅜	1 7/16	5.50
E 450	4½	5½	1 7/16	7.00
E 500	5	6⅜	1 19/32	9.50
E 600	6	7⅜	1 19/32	12.00

FITTING COVERS

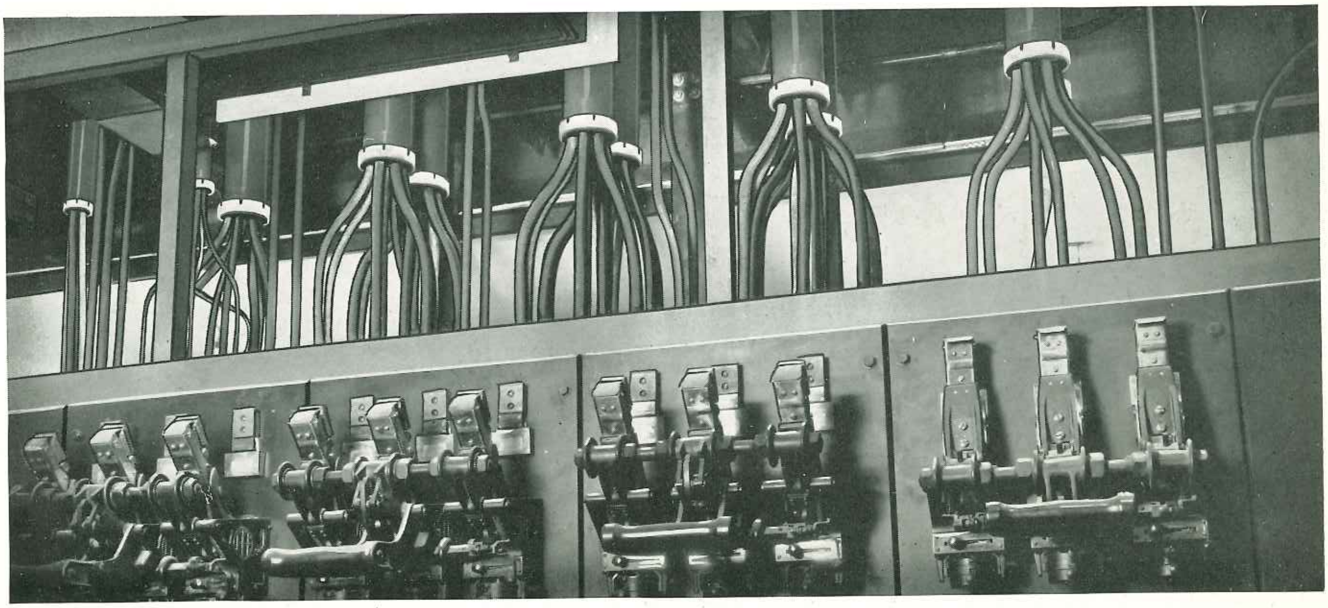


These covers are made of molded Canvas Bakelite which is the strongest molded insulating material known.

Where conditions are such that a snug fit is required around the cables, holes will be drilled to your specifications.

We carry a complete stock of blank covers for this purpose.

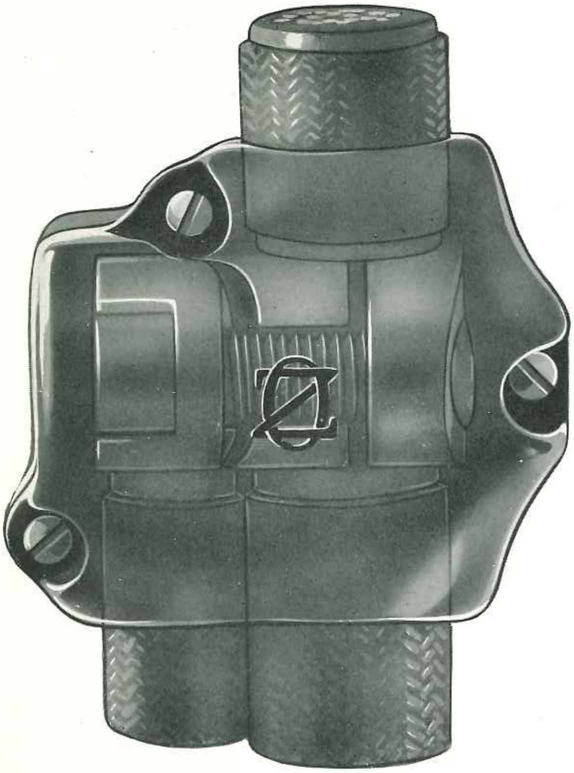
Size	List Price Blank	List Price 1 to 4 Hole	List Price 5 to 9 Hole
½	.10	.10	.15
¾	.15	.15	.20
1	.20	.20	.30
1¼	.30	.30	.45
1½	.40	.40	.60
2	.50	.50	.75
2½	.75	.75	1.20
3	1.00	1.00	1.50
3½	1.25	1.25	1.75
4	1.50	1.50	2.00
4½	2.00	2.00	2.50
5	2.50	2.50	3.00
6	3.00	3.00	3.50



PHOTOGRAPH ABOVE ILLUSTRATES ONE OF THE MANY USES OF O. Z. END FITTINGS

INSULATED COVERS

FOR PARALLEL GUTTER TAPS



CATALOGUE NO. BC-699

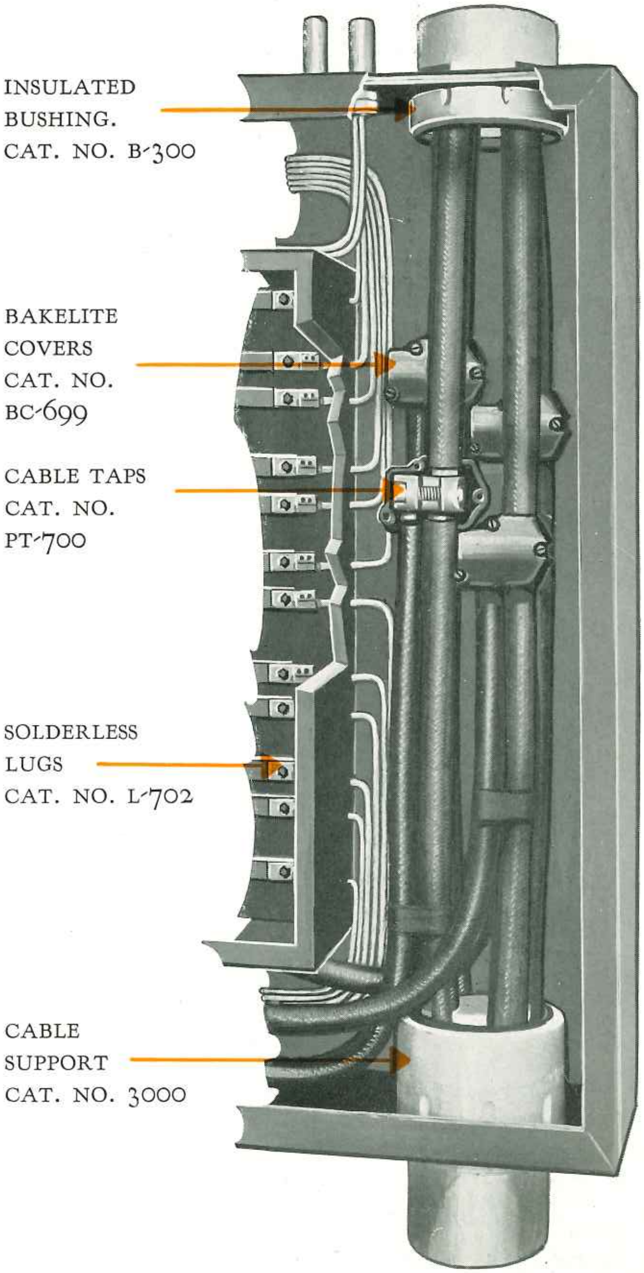
The above covers are used in conjunction with the parallel gutter taps listed on page 9.

These covers are made of Canvas Bakelite and when assembled form a tight fit around the wires.

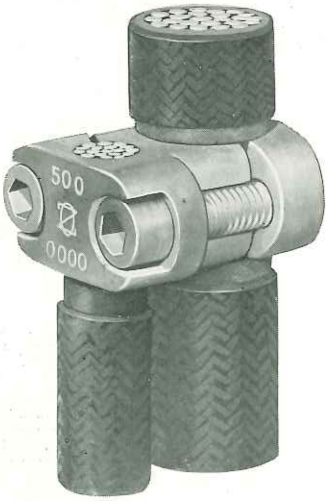
The use of these covers eliminates the necessity of using rubber and friction tape.

Main	Tap	List Price
2 to 1	6 to 1	.80
1/0 to 4/0	6 to 1/0	.80
2/0 to 4/0	2/0 to 4/0	1.00
250 000 to 350 000	6 to 3/0	1.00
250 000 to 350 000	4/0 to 350.000	1. 25
400 000 to 500 000	6 to 4/0	1.25
400 000 to 500 000	250,000 to 500,000	1.50
550 000 to 700 000	6 to 350,000	1.50

Photograph shown below illustrates an installation where a Cable Support, Insulated Bushings, Solderless Parallel Gutter Taps with bakelite covers and solderless Lugs are used.


INSULATED BUSHING. CAT. NO. B-300
BAKELITE COVERS CAT. NO. BC-699
CABLE TAPS CAT. NO. PT-700
SOLDERLESS LUGS CAT. NO. L-702
CABLE SUPPORT CAT. NO. 3000

PARALLEL GUTTER TAPS



This fitting is made of bronze. It consists of two pieces assembled by two steel socket head cap screws, and so constructed that when properly installed it will give a firm positive connection. To prevent corrosion the tap is cadmium plated.

Where space is limited, you will find these taps fit cramped conditions.

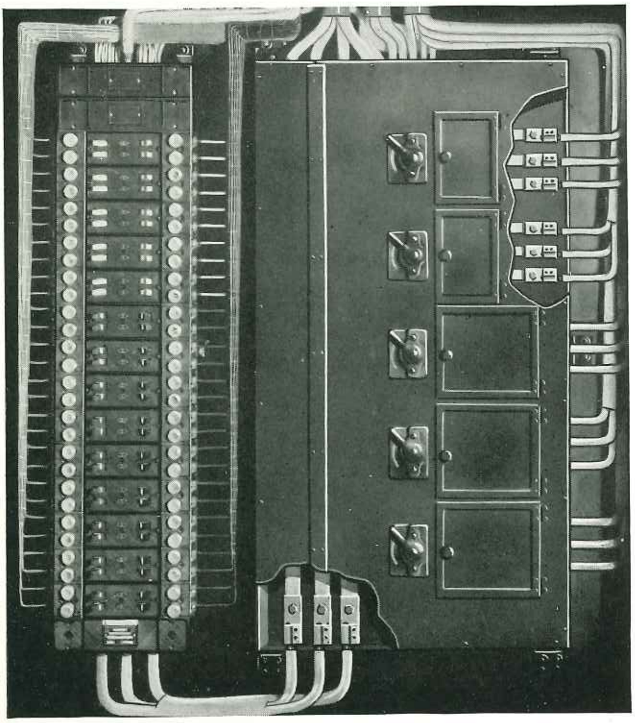
Specify exact size of wire, as connectors are made to fit only one combination of wires.

Wrenches furnished with each order.

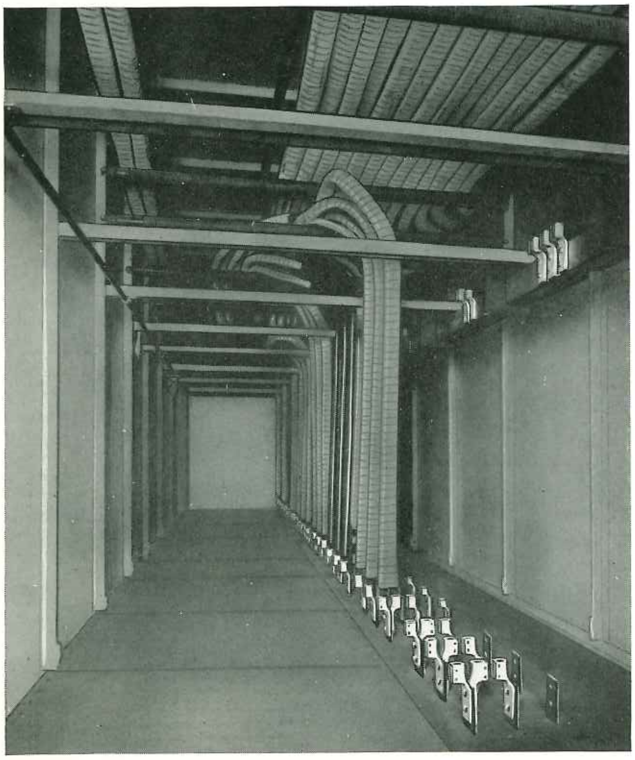
Bakelite covers for these fittings are listed on page 8.

LIST PRICES CATALOGUE NO. PT-700

Wire Size	6 or 4 or 2	1 or 1/0	2/0	3/0	4/0	CIRCULAR MILL SIZES											
						250 000	300 000	350 000	400 000	450 000	500 000	600 000	700 000	750 000	800 000	900 000 950 000	1 000 000
6	.72																
4	.72																
2	.88																
1	.88	.88										Made in all sizes up to 2,500,000 C.M. Prices on application.					
0	.88	.88															
00	.88	.88	.88														
000	.88	.92	1.00	1.08													
0000	1.04	1.12	1.20	1.24	1.32												
250 000	1.08	1.16	1.20	1.28	1.32	1.40											
300 000	1.24	1.28	1.36	1.40	1.48	1.56	1.60										
350 000	1.40	1.48	1.52	1.56	1.64	1.72	1.76	1.88									
400 000	1.52	1.56	1.60	1.68	1.76	1.80	1.88	1.96	2.04								
450 000	1.68	1.76	1.80	1.88	1.96	2.00	2.08	2.16	2.24	2.32							
500 000	1.92	1.96	2.00	2.08	2.16	2.20	2.28	2.36	2.44	2.52	2.64						
550 000	2.12	2.20	2.24	2.32	2.40	2.48	2.52	2.60	2.68	2.80	2.88						
600 000	2.32	2.40	2.40	2.52	2.56	2.64	2.72	2.76	2.84	2.96	3.04	3.28					
700 000	2.68	2.72	2.80	2.88	2.92	3.00	3.04	3.16	3.20	3.32	3.40	3.56	3.80				
750 000	2.88	2.92	2.96	3.04	3.08	3.16	3.20	3.32	3.40	3.48	3.68	3.72	4.00	4.08			
800 000	3.04	3.12	3.16	3.20	3.28	3.36	3.40	3.52	3.64	3.68	3.80	4.00	4.20	4.28	4.50		
900 000	3.36	3.40	3.44	3.48	3.56	3.60	3.68	3.76	3.84	3.92	4.08	4.24	4.44	4.52	4.62	4.80	
1 000 000	3.68	3.72	3.80	3.84	3.92	4.00	4.08	4.12	4.20	4.24	4.40	4.64	4.80	4.88	5.00	5.12	5.32
Wire Size	6 or 4 or 2	1 or 1/0	2/0	3/0	4/0	250 000	300 000	350 000	400 000	450 000	500 000	600 000	700 000	750 000	800 000	900 000 950 000	1 000 000
						CIRCULAR MILL SIZES											



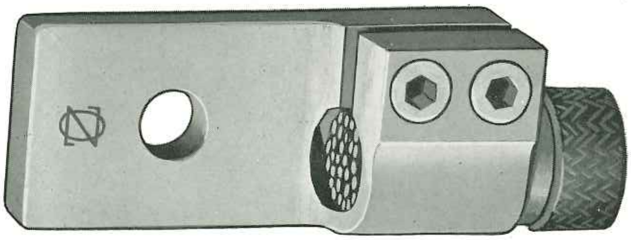
AN INSTALLATION WHERE O. Z. SOLDERLESS LUGS WERE USED IN PREFERENCE TO THE SOLDERED TYPE



O. Z. SWITCHBOARD TYPE LUGS AS USED IN THE ABOVE MAKE A NEAT APPEARANCE AND LOW INSTALLATION COST

SOLDERLESS LUGS

FRONT CONNECTED



CATALOGUE NO. L-702

Front connected lugs are used for connecting wires or cables to flat bus bars or to other terminal points.

These lugs are regularly furnished drilled.

They can be furnished blank or drilled to specification.

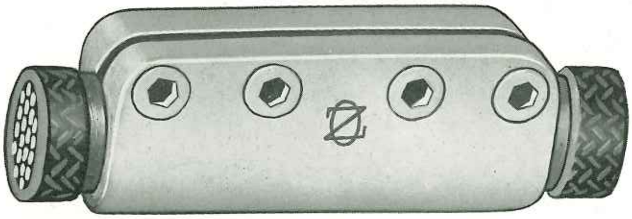
Switchboard type lugs can be furnished to your specifications, at an additional cost. Wrenches furnished with each order.

NOTE. For drilling data, etc., see data sheet on page 13.

Size	List Price
8 to 3	.30
2	.35
1	.40
0	.45
00	.55
000	.65
0 000	.80
250 000	.95
300 000	1.10
350 000	1.30
400 000	1.45
450 000	1.65
500 000	1.80
550 000	2.00
600 000	2.30
650 000	2.50
700 000	2.70
750 000	2.90
800 000	3.10
850 000	3.30
900 000	3.50
950 000	3.70
1 000 000	3.90
1 100 000	4.10
1 200 000	4.30
1 300 000	4.60
1 400 000	4.90
1 500 000	5.20
1 600 000	5.60
1 700 000	6.00
1 800 000	6.50
1 900 000	7.00
2 000 000	7.50
2 500 000	9.50
3 000 000	14.00

TWO-WAY CONNECTORS

STRAIGHT THROUGH



CATALOGUE NO. TW-701

Two-way connectors are used to join two conductors of the same size end to end in a straight line and are adaptable to stranded cable, solid wire, rod or tubing. These fittings can be furnished to connect two different size conductors.

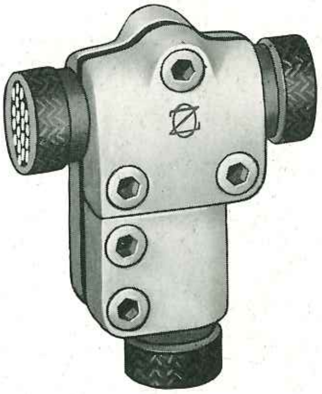
Wrenches furnished with each order.

When ordering specify catalog number, size of wire, stranded or solid. For rod or tubing give outside diameter.

NOTE. For dimension data see page 13.

Size	List Price
4	.40
2	.45
1	.50
0	.60
00	.75
000	.90
0 000	1.10
250 000	1.30
300 000	1.50
350 000	1.75
400 000	2.00
450 000	2.25
500 000	2.60
550 000	2.90
600 000	3.25
650 000	3.50
700 000	3.75
750 000	4.00
800 000	4.25
850 000	4.50
900 000	4.75
950 000	5.00
1 000 000	5.26
1 100 000	5.50
1 200 000	5.75
1 300 000	6.25
1 400 000	7.00
1 500 000	7.75
1 600 000	8.50
1 700 000	9.25
1 800 000	10.00
1 900 000	10.75
2 000 000	11.50
2 500 000	12.50
3 000 000	16.00

T-CABLE TAPS



CATALOGUE NO. T-704

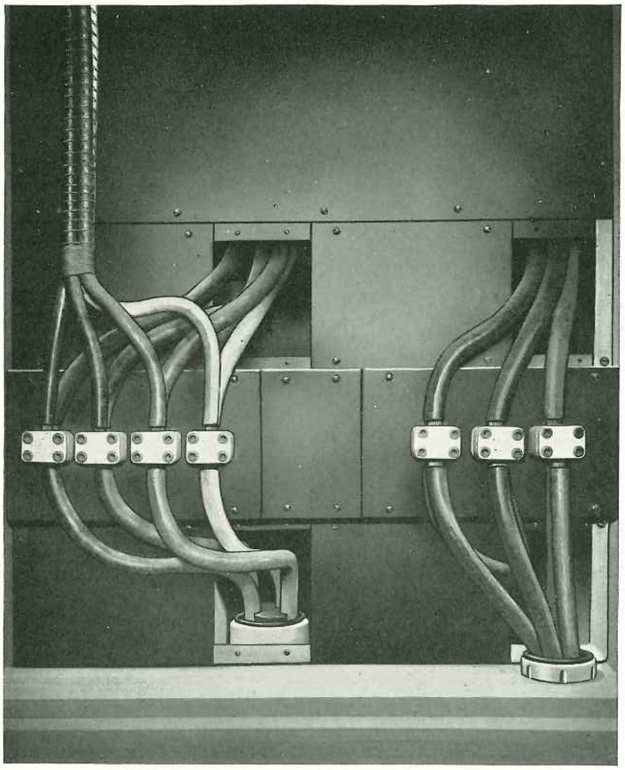
T-Cable Taps are used where a tap is required at a 90° angle to a main feeder. These taps can be used for stranded cable, solid wire rod or tubing.

Wrenches furnished with each order.

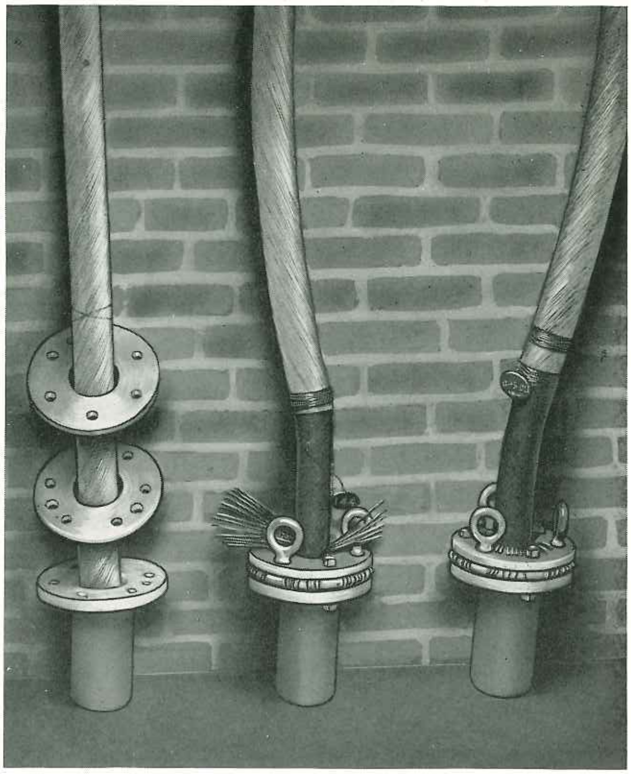
When ordering specify catalog number, size of wire, stranded or solid. For rod or tubing give outside diameter.

Size	List Price
4	.60
2	.70
1	.85
0	.90
00	1.10
000	1.35
0 000	1.65
250 000	1.95
300 000	2.25
350 000	2.60
400 000	3.00
450 000	3.40
500 000	3.90
550 000	4.40
600 000	4.80
650 000	5.25
700 000	5.60
750 000	6.00
800 000	6.40
850 000	6.75
900 000	7.00
950 000	7.50
1 000 000	7.80
1 100 000	8.25
1 200 000	9.00
1 300 000	9.75
1 400 000	10.50
1 500 000	11.20
1 600 000	12.00
1 700 000	12.75
1 800 000	13.50
1 900 000	14.25
2 000 000	15.00
2 500 000	18.00
3 000 000	24.00

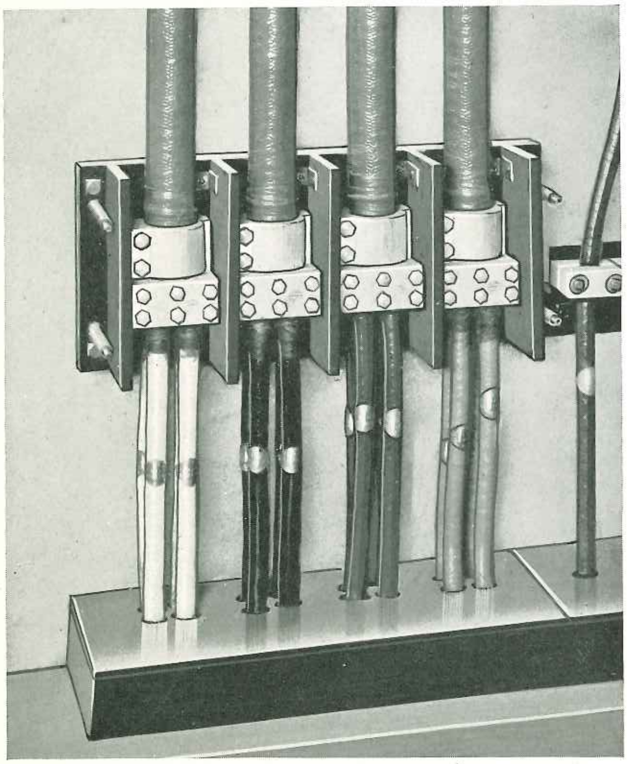
A FEW OF OUR SPECIALTIES



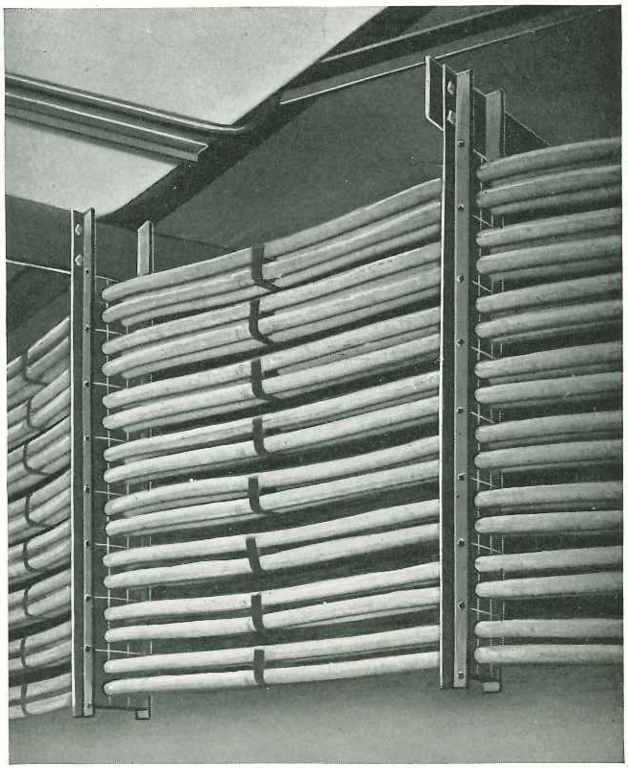
O. Z. PANEL MOUNTED CABLE TAPS



HIGH TENSION CABLE SUPPORT CLAMPS



A CONDITION WHERE FOUR CABLES WERE TAPPED FROM THE MAIN SERVICE

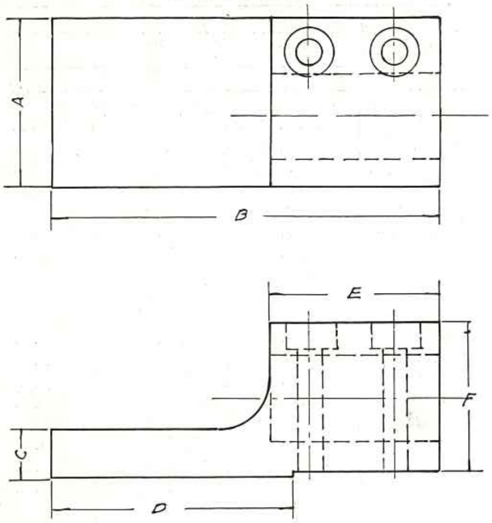


CABLE CLEAT SUPPORTS, ONE OF OUR MOULDED PRODUCTS

DATA SHEET

SOLDERLESS LUGS

NO. L-702

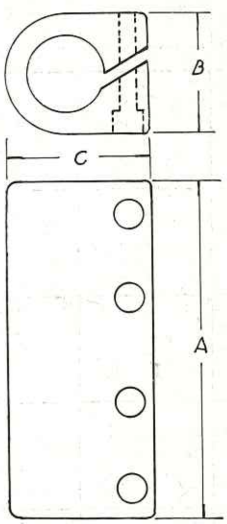


Dimensions

Size	A	B	C	D	E	F
14 to 6	5/8"	1 1/4"	3/16"	3/4"	1/2"	7/16"
4	5/8	1 5/8	3/16	1 1/8	5/8	1/2
2	3/4	2	1/4	1 1/4	7/8	17/32
1	3/4	2	1/4	1 1/4	7/8	17/32
0	7/8	2 1/8	1/4	1 3/8	7/8	3/4
00	15/16	2 1/4	1/4	1 1/2	7/8	25/32
000	1	2 1/2	1/4	1 3/4	7/8	25/32
0000	1 1/8	2 5/8	1/4	1 3/4	1	15/16
250 000 CM 300 000 CM	1 1/4	3	5/16	2 1/16	1 1/16	15/16
350 000 CM 400 000 CM	1 3/8	3 1/4	5/16	2 9/32	1 1/8	1 3/32
450 000 CM 500 000 CM	1 1/2	3 1/2	3/8	2 3/8	1 1/4	1 3/16
550 000 CM 600 000 CM	1 5/8	3 7/8	3/8	2 1/2	1 1/2	1 9/32
650 000 CM 700 000 CM	1 3/4	4 1/4	7/16	2 3/4	1 5/8	1 13/32
750 000 CM 800 000 CM	1 7/8	4 3/8	7/16	2 7/8	1 3/4	1 7/16
850 000 CM 900 000 CM	2	4 15/16	7/16	3 1/4	1 7/8	1 5/8
950 000 CM 1 000 000 CM	2	5 1/4	1/2	3 1/2	2	1 11/16
1 250 000 CM	2 1/4	5 1/2	1/2	3 3/4	2 1/8	1 7/8
1 500 000 CM	2 1/2	5 3/4	1/2	3 7/8	2 1/4	2
1 750 000 CM	2 5/8	6	9/16	4	2 3/8	2 1/4
2 000 000 CM	2 3/4	6 1/4	9/16	4 1/8	2 1/2	2 3/8
2 500 000 CM	3	6 13/16	3/4	4 1/2	2 3/4	2 1/2

TWO-WAY CONNECTORS

NO. TW-701



Dimensions

Size	A	B	C
Up to 1	1 3/4'	19/32"	3/4"
0	2	5/8	7/8
00	2 1/8	11/16	29/32
000	2 1/4	3/4	1 1/32
0000	2 1/2	7/8	1 5/32
250 000 CM 300 000 CM	2 3/4	1 1/32	1 9/32
350 000 CM 400 000 CM	3	1 5/32	1 13/32
450 000 CM 500 000 CM	3 1/4	1 3/16	1 7/16
550 000 CM 600 000 CM	3 1/2	1 5/16	1 5/8
650 000 CM 700 000 CM	3 3/4	1 11/32	1 11/16
750 000 CM 800 000 CM	4	1 13/32	1 3/4
850 000 CM 900 000 CM	4 1/4	1 5/8	2
950 000 CM 1 000 000 CM	4 1/2	1 11/16	2 1/16
1 250 000 CM	4 3/4	1 7/8	2 1/4
1 500 000 CM	5	2	2 7/16
1 750 000 CM	5 1/4	2 1/4	2 5/8
2 000 000 CM	5 3/4	2 3/8	2 13/16
2 500 000 CM	6	2 1/2	3

CONDUIT SIZES FOR WIRES AND CABLES

FOR 600 VOLTS OR LESS

Size of Wire	Number of Wires in One Conduit								
	1	2	3	4	5	6	7	8	9
	Minimum Size of Conduit in Inches								
2 000 000	3	5	6	...	...	...	...	...	...
1 750 000	3	5	5	6	...	...	...	...	...
1 500 000	2½	4½	5	6	...	...	...	...	...
1 250 000	2½	4½	4½	6	...	...	...	...	...
1 000 000	2	4	4	5	...	...	...	...	...
950 000	2	4	4	5	...	...	...	...	...
900 000	2	3½	4	4½	...	...	...	...	...
850 000	2	3½	4	4½	...	...	...	...	...
800 000	2	3½	4	4½	...	...	...	...	...
750 000	2	3½	3½	4½	...	...	...	...	...
700 000	2	3½	3½	4½	...	...	...	...	...
650 000	2	3½	3½	4	...	...	...	...	...
600 000	2	3	3½	4	4½	5	...	...	...
550 000	1½	3	3½	4	4½	5	...	...	...
500 000	1½	3	3	3½	4	4½	...	...	...
450 000	1½	3	3	3½	4	4½	...	...	...
400 000	1¼	3	3	3½	4	4	...	...	...
350 000	1¼	2½	3	3½	3½	4	...	...	...
300 000	1¼	2½	3	3	3½	3½	...	...	...
250 000	1¼	2½	2½	3	3	3½	...	...	...
225 000	1¼	2½	2½	3	3	3½	...	...	...
0 000	1¼	2	2½	2½	3	3	3½	3½	4
000	1	2	2	2½	3	3	3	3½	3½
00	1	2	2	2½	2½	3	3	3	3½
0	1	1½	2	2	2½	2½	3	3	3
1	¾	1½	1½	2	2	2½	2½	3	3
2	¾	1¼	1½	1½	2	2	2½	2½	2½
3	¾	1¼	1¼	1½	2	2	2	2½	2½
4	¾	1¼	1¼	1½	2	2	2	2	2½
5	¾	1¼	1¼	1¼	1½	2	2	2	2
6	½	1	1¼	1¼	1½	1½	2	2	2
8	½	¾	1	1	1	1¼	1¼	1¼	1¼
10	½	¾	¾	1	1	1	1¼	1¼	1¼
12	½	½	½	¾	¾	1	1	1	1¼
14	½	½	½	¾	¾	1	1	1	1

For groups or combinations not included in the above tables it is recommended that the conduit be of such size that the sum of the cross-sectional areas of the several conductors will not be more than 40% of the interior cross-sectional area of the conduit.

CABLE SUPPORT INTERVALS

FOR WIRES IN VERTICAL CONDUITS

Size of Wire	Maximum Distance Between Cable Supports
14 to 0	100 ft.
00 to 0000	80 ft.
0000 to 350 000 C. M.	60 ft.
350 001 C. M. to 500 000 C. M.	50 ft.
500 001 C. M. to 750 000 C. M.	40 ft.
above 750 000 C. M.	35 ft.

CAPACITY OF WIRES

FOR LIGHTING FEEDERS

Wire Size	Ampere Capacity	Feeder Wattage	Wire Size	Ampere Capacity	Feeder Wattage
14	15	3 330	300 000	275	60 500
12	20	4 400	350 000	300	66 000
10	25	5 500	400 000	325	71 500
8	35	7 700	450 000	372	81 840
6	50	11 000	500 000	400	88 000
4	70	15 400	550 000	425	93 500
3	80	17 600	600 000	450	99 000
2	90	19 800	650 000	475	104 500
1	100	22 000	700 000	500	110 000
0	125	27 500	750 000	525	115 500
00	150	35 000	800 000	550	121 000
000	175	38 500	900 000	600	132 000
0 000	225	49 500	1 000 000	650	143 000
250 000	240	52 800	1 250 000	750	165 000

Memorandum

PATENT OFFICE
NOV 1 - 1932
DIV. 55

PLANDOME PRESS, INC.
NEW YORK

O. Z. CABLE SUPPORT CO., Inc.
A.I.A. FILE No. 31-C-64